KOSSAKOWSKI, Jan; KOSSAKOWSKA, Stanislawa; STODUISKI, Jaroslaw

Surgical therapy of congenital case of partial esophageal stenosis. Pediat. polska 34 no.1:77-80 Jan 59.

1. Z Kliniki Chirurgii Dzieciecej A. M. w Warszawie Kierownik: prof. dr med. J. Kossakowski. Adres: Warszawa, ul. Litewska 16. (ESOPHAGUS, stenosis, congen. parzial., surg. (Pol))

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Warsz. 4 no.4:309-312 July-Aug 54.

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prof. dr M.Mienicki.

(FIBROMA.

keloid, ther., vitamins B2. C.& PP with iron opds.)

(VITAMIN B2. therapeutic use.

keloid, with vitamins C & PP & iron opds.)

(VITAMIN C. therapeutic use.

keloid, with vitamins B2 & PP & iron opds.)

(NICOTINIC ACID.

vitamin PP, ther. of keloid, with vitamins B2 & C & iron opds.)

(IRON, therapeutic use.

keloid, with vitamins B2. C & PP)
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KOSSAKOWSKA-SUCH, Janina

Analysis of the gravel of the Dunajec River between the Pieniny Mountains and the Roznow Lake. Biuletyn Geolog 1 no.1:304-125 161.

1. Chair of Geology and Economics of Deposits, University, Warsaw,

BOBLOWSKI, W.; KOSSAKOWSKA-SUCH, J.

Exactness of rounding degree measurements of rock grains. Biuletyn Geolog 1 no.1:138-147 '61.

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CIA-RDP86-00513R000825130006-6

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KURLONICZ, W.; KUZNIEGOW, A.; KOSSAKOWSKI, A.

A method of preparation of lyophilized BCG vaccine. Polski tygod. lek. 7 no. 25:837-838 23 June 1952. (CLML 23:3)

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KURYLOWICZ, W.; KUZNIRCOW, A.; KOSSAKOWSKI, A.

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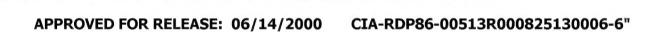
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Application of slide culture in bacteriologic diagnosis of tuberculosis. Przegl. epidem., Warsz. 8 no.4:265-273 1954.

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### KOSSAKOWSKI, A., dr.

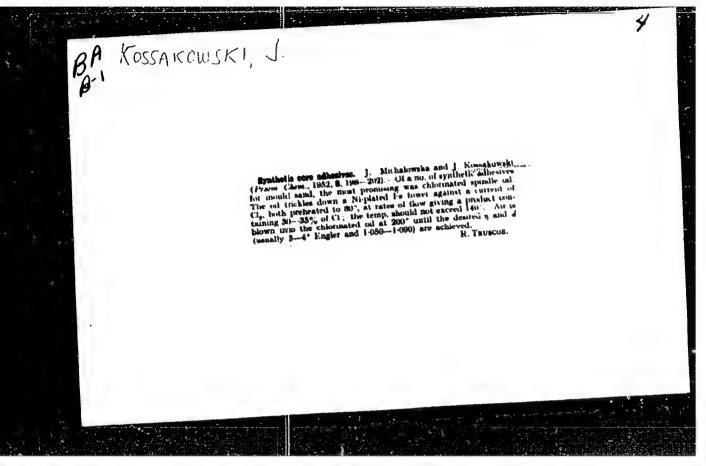
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1. Egyetemi Pszichologiai Intezet, Leipzig.

BERNACKA, Krystyna; KOSSAKOWSKI, Dominik

Anti-rheumatic drugs and acute phase tests in the treatment of chronic progressive rheumatism. Reumatologia (Warsz.) 2 no.3: 255-260 164.

1. Z I Kliniki Chorob Wewnetrznych Akademii Medycznej w Bialymstoku (Kierownik; doc. dr B. Bogdanikowu).



### KOSSAKOWSKI, J.

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Uncl.

#### KOSSAKOWSKI, J.

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1. Author is Pocent and M.D.

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(FEDIATRICS,

*in Poland, specialization in pediatric surg.)

(SURGERY,

*in Poland, specialization in pediatric surg.)
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# KOSSAKOWSKI Jan (adres: Warszawa, Marszalkowska 8 m 13)

Social significance of certain problems in pediatric surgery. Pediat pol 29 no.1:105-110 Ja '54. (ERAL 3:8)

1. Z Kliniki Chirurgii Dzieciecej Akademii Medycznej w Warszawie, Kierownik: prof. dr med. J.Kossakowski. (Otrzymano: 10.X.1953) (PEDIATRICS,

\*surg. in, soc. aspects)
(SURGERY,

\*in pediatrics, soc. aspects)

KOSSAKOWSKI, Jan

Dr med. Stefan Kielkiewics. Pediat. polska 29 no.4:455-456
Ap \*54.
(OBITUARIES,
\*Kielkiewics, Stefan)

KOSSAKOWSKI, J. prof.dr.

Remarks on post-graduate work of physicians in pediatric surgery. Zdrowie pub., Warss. no.3:227-233 May-June '55.

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in Poland, post-graduate work in surg.)

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1. Kierownik Kliniki Chirurgii Dzieciecej A.M. w Warszawie, Warszawa, Litewska 16.

(PEDIATRICS,
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(SURGERY,
same)

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Kessakovskii, Yan [Kossakovsky, Jan], prof.

Congenital obstruction of the esophagus. Khirurgiia 32 no.10:
11-17 0 '56

(MIMA 12:7)

1. Iz kliniki detakov khirurgii (rukovoditel' - prof. Jan
Kossakovskiy) Meditainskov akademii v Varshave.

(RSOPHAGUS, abnorm.

atresin & stenosis, surg. in child.)

KOSSAKOWSKI, J., Prof., Dr.

Main problems of pediatric surgery. Cosk. zdravot. 5 no.3: 164-167 Mar 57.

1. Professor detake chirurgie na lekarske akademii ve Varsave. (PEDIATRICS, surgery,  $C_{\rm Z}$ ))

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Observations on sudden thoracotomies in suppurative pulmonary and pleural diseases. Pediat. polska 34 no.1:13-23 Jan 59.

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(LUNG DISEASES, in inf. & child, suppurative dis., thoracotomy (Pol))

(PLETRA, dis. suppurative dis. in child., thoracotomy (Pol))

### KOSSAKOWSKI, Jan

Observations on aorto-pulmonary anastomosis in Fallot's tetralogy in children. Polski przegl. chir. 33 no.11:1257-1267 '61.

1. Z Kliniki Chirurgii Dzieciecej AM w Warszawie Kierownik: prof. dr J. Kossakowski.

(TETRALOGY OF FALLOT surg)

KOSSAKCWSKI, Jan

The polish production of mercury-vapor bulbs. Przegl elektrotechn 38 no.53224. 62.

### "APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000825130006-6

Constant Constan

(SURGERY, OPERATIVE) (ANESTHESIA)

TYSZKA, Jenusz, mgr inz.; SZOKALSKI, Zygmunt, mgr inz.; KOSSAKOWSKI, Jen, inz.

Properties of high-pressure mercury vapor lamps made in Poland. Przegl elektrotech 40 no.3:Supplement: Techn swietl 3 no.2:153-156 Mr. 164

1. Zaklady Wytworcze Lamp Elektrycznych im. Rezy Luksemburg, Warszawa.

KOSSAKOWSKI, Jan

Treatment of congenital atrecia of the anus and rectum in children. Pol. przegl. chir. 35 no.10/11:1156-1158 163.

1. Z Kil lli Chirurgii Dzieciecej AM w Warszawie Kierownik: prof. & J. Kossakowski.

(ANUS) (RECTUM) (ABNORMALITIES)

(SURGERY, OFERATIVE)

(INFANT, NEWBORN, DISEASES)

KASPERLIK-ZALUSKA, Anna; KOSSAKOWSKI, Jacek

A case of Cushing's syndrome treated by surgery. Pol. przegl. chir. 37 no.4: Suppl: 447-452 Ap. 65.

1. Z I Kliniki Chorob Wewnetrznych Studium Doskonalenia Lekarzy w Warszawie (Kierownik: prof. dr. med. W. Hartwig) i Oddzialu Urologicznego Szpitala Bielanskiego w Warszawie (Kierownik: dr. med. J. Frynzmun).

### "APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000825130006-6

### KOSSAFO ILL COM

hoview of 121 operations for Fellot's tetralogy in children. Pol. przegl. chir. 36 no.3:307-313 Mr \*64.

1. Z Kliniki Chirurgicane' Dzieciecej "cademii Medycanej w Warszawie (Kierowniks prot. dr J. Kossakowski).

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Problems of choosing the proper high-pressure mercuryvapor lamps and their reactors according to the supply conditions. Przegl elektrotechn 40 no.9:Suppl.:Techn swietl 3 no.5:418-420 S '64.

KOSSAKOWSKI, Jozef

Coexistence of the crayfish Astacus astacus L. and Astacus leptodactylus Esch. in Loby Lake. Rocz nauk roln zootechn 84 no.2:431-455 '64.

1. Institute of Inland Water Fisheries, Olsztyn.

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KOSSAKOWSKI, Mieczysław, inz.; RUSSOCKI, Andrzej, mgr inz.; ÆLAZNY, Jerzy, inz.

Mining Machine Works in Piotrkov Trybunalski. Przegl mech 22 no.7/8:238-240 10-25 Ap '63.

1. Mining Machinery Works, Piotrkow Trybunalski.

### KOSSAKOWSKI, M.

The Swedish Association of the Cooperatives of Slaughterhouses. p.41
GOSPODARKA MIESNA. (Polskie Wydawnictwa Gospodarcze) Warszawa, Poland
Vol. 11, no. 7/8, July/Aug. 1959

Monthly List of East European Accessiona. (EEAI) LC Vol. 9, no.1, Jan. 1960

Uncl.

KOSSAKCMSKI, Miroslaw, inz. Roads in Iraq. Drogrumictwo 17 no. 5:125-126. Py '62.

ROSSAMO SKI, C.

Methods of long-distance regulation of hot-water heating. p. 237. CAR, WODA I TECHNIKA SMETARNA, Warszawa, Vol. 29, no. 7, July 1955.

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1/1

## APPROVED FOR RELEASE: 06/14/2000 ... CIA-RDP86-00513R000825130006-6"

I. 3\(\text{lile}\text{lile}\text{8-66}\) RO

ACC NR: AP6026206 (A) SOURCE GODE: PO/0071/65/000/009/0513/0517

AUTHOR: Kossakowski, Stefan-Kossakovski, S. (Doctor; Pulawy); Kujawski, Janusz (Pulawy)

ORG: Veterinary Service Research Center (Osrodek Badawczy Sluzby Weterynaryjnej)

TITLE: Poisoning of domestic animals with organic phosphate pesticides

SOURCE: Medycyna weterynaryjna, no. 9, 1965, 513-517

TOPIC TAGS: toxicology, pesticide, organic phosphorus compound, commercial animal

ABSTRACT: Data on the 2 organic phosphate pesticide products manufactured in Poland (Asofos and Foschlor) thorough analysis of Polish and foreign reports on domestic animal poisonings with these and related compounds; tabulation of enzymatic and toxic effects; symptoms, pathologic changes, treatment. Orig. art. has: 2 tables. [JPRS: 33,500]

SUB CODE: 06 / SUBM DATE: none

Cord 1/1

FOLAND / Discusses of Form Animals. Discusses Caused by Viruses and Rickettsiae.

R-2

Abs Jour

: Ref Zhur - Biol., No 17, 1958, No 78951

Author

:\_Kossakowski, Stefan

Inst Title : Not given : Complications After the Innoculation of Dogs Against

Fever by the Combined (Simultaneous) Method.

Orig Pub

: Wojskowy przegl. weteryn., 1956, 27, No 3, 30-33

Abstract

: 34 dogs under 1 year were innoculated with an antiserum and dry vaccine of the Bering firm. Before innuculation all of the dogs were investigated for the presence of helminths and in the needed cases vermifuge treatment was carried out. In 38% of the innoculated dogs, temperature increased to 40.5° and higher, prolonged diarrhea appeared, sometimes blood weakness, full loss of appetite

Card 1/2

19

#### S/194/62/000/001/052/066 D201/D305

AUTHORS:

Kossakowski, Zdzisław, Tor, Bogdan, Zieńkiewicz, Ryszard and Derulski, Zygmunt

TITLE:

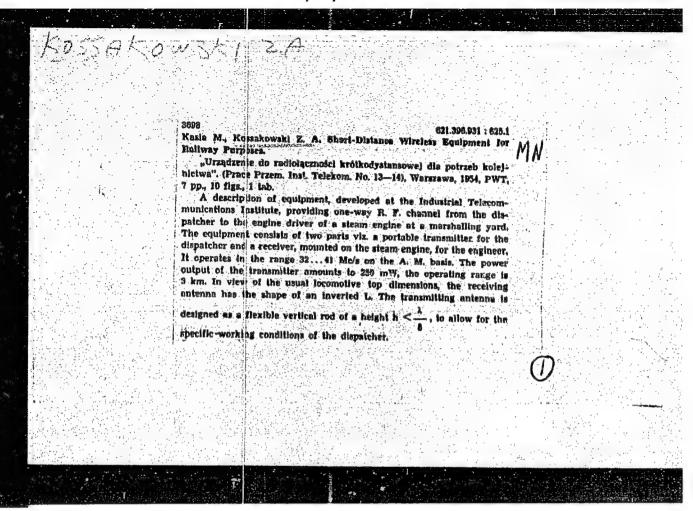
Design and assessment of technical requirements and of the measuring methods for UHF FM transmitters and receivers, used in mobile land communication systems of the Polish People's Republic

PERIODICAL:

Referativnyy zhurnal, Avtomatika i radioelektronika, no. 1, 1962, abstract 1-7-145 i (Prace Inst. Zączn., 1960, 7, no. 2, 3-37)

TEXT: The assessment is given of technical requirements and of the methods of measurements as applied to the mobile equipment for land operation. It is suggested that these requirements and methods be included in the Radio Communication Specifications issued by the Department of Long Distance Communications in 1960. The technical requirements and the methods of measurements apply to the mobile equipment, operating at frequency ranges 33-35, 44-46, 150-156

Card 1/2



BOYKOV, A.; KOSSARZHEVSKIY, M.

Fire in a high-power transformer. Pozh. delo 4 no.6:17 Je 158.
(Electric power plants-Fires and fire prevention) (MIRA 11:5)

MILANOWSKA, Kazimiera; KOSSATZ, Danuta

Notes on its possibilities and results of late rehabilitation of patients with fractures of the cervical spine. Chir. narzad. ruchu ortop. Pol. 28 no.7:805-806 163

1. Z Kliniki Ortopedysznej Akademii Medycznej w Poznaniu (Kierownik: pr. . dr. W. Dega) i z Osrodka Rehabilitacyjnego przy Sanatorium dla Nerwowo Chorych w Koscienie (Dyrektor: dr. K. Kuczewska).

KOSSAYA, A.I.; GRAFIOVSKAYA, T.V.

Method of evaluating diagnoses made by first aid physicians. Zdrav. Ros. Feder. 7 no.10:23-26 0'63 (MIRA 16:11)

1. Iz Kiyevskoy stantsii skoroy pomoshchi (glavnyy vrach N.A.Lengauer).



KOSSAYA, I.I. [deceased].

Using a recording microphotometer for measuring the intensity of X-ray interference. Zav. lab. 23 no.12:1502-1503 157. (MIRA 11:2) (X rays) (Microphotometer)

3/137/62/000/001/141/237 A052/A101

AUTHORS:

Starodubov, K. F., Kossaya, I. I.

TITLE

The change in mechanical properties of low-carbon steel following

ageing

PERIODICAL

Referativnyy zhurnal, Metallurgiya, no: 1, 1962, 35, abstract 11240

"Nauchn, tr. Dnepropetrovsk, metallurg, in-t, no. 36, 1958, 59-71)

The effect of tempering conditions, temperature (50 - 650°C) and duration (0.5 - 60 hours), on mechanical properties (66, 63, 0, 0, 0, and R<sub>D</sub> of hot-rolled rod, cold-rolled sheet and boiler sheet grade 10 steel was investigated. The maximum increase of R<sub>D</sub> (by 10 - 12 units), 66 (by 8 - 10 kg/mm<sup>2</sup>) and 6 (by 7 - 8 kg/mm<sup>2</sup>) was observed after 10 - 15 hours' ageing at 50°C. At the same time a decrease of 0 by 3%, of 0 by 5% and a sharp drop of 0 took place took place.

T. Fedorova

[Arstracter's note: Complete translation]

Card 1/1

# KOSSECKI, J.

On a certain problem of plane linear viscoelasticity. Bul Ac Pol tech 12 no. 1: 39-43 '64

1. Department of Mechanics of Continuous Media, Institute of Fundamental Technical Problems, Polish Academy of Sciences, Warsaw. Presented by W. Nowacki.

KOSSECKI, Jozef

Generalized plane state of stress in a rotating viscoelastic disk with an elastic hoop. Rozpr inz PAN 12 no.28297.307 '64.

1. Department of Mechanics of Continuous Media, Institute of Basic Technical Problems, Polish Academy of Sciences, Warsaw.

KOSSEK, V., inchener

Safety of petroleum tankers sailing under new operating conditions.

Rech. transp. 14 no.4:9-10 Ap '55. (MIRA 8:6)

(Tank vessels)

BOGDANOV, P.; DOBREV, D.; KOSSEV, R.; PIRYOVA, B.

A method of measuring the blood pressure of man in a water environment. Dokl. Bolg. akad.nauk 17 no.1:93-95 \*64

1. Submitted by Academician D. Orahovats.

ZOLOTOVITCH, G. [Zolatovich, G.]; KOSSEVA, D. [Koseva, D.]; MECHEVA, R.

Examining certain substances in sound and abscissing flower buds of Rosa dams.scena Mill. Doklady BAN 17 no.11:1059-1062 '64.

1. Experiment Station for Roses and Essential Oil Flants, Kazanluk. Submitted July 11, 1964.

KOSSEY, J.

CERVENAUSKY, J.

CZECHOSLOVAKIA

no academic dogree indicated

Orthopodic Clinic, Medical Faculty, Comenius University (Ortopodicka klinika lekarsko fakulty University Komonskeho) Bratislava; Director: corresp. momber SAV, Prof. J. Gervensnsky MD, and Oncological Research Institute (Vyskumny ustav onkologicky) Bratislava; Director: corresp, member MV, decent V.THURZO MD.

Bratislava, Bratislavske Lokarske Listy, No 8, Oct 62, pp 465-478.

"Anemysmal Bone Cysts"

Co-author:

KOSSEY, J. same as above

THURZO, V.; MUZIKOVA, M.; KOSSEY, P.

Attempted transfer of Crocker sarcoma 180 with acellular filtrate. Cesk.onkol. 1 no.3-4:249-253 1954.

1. Vyskumny ustav onkologicky, Bratislava. MUDr. Viliam Thurzo, chlen koresp. SAV, RNDr. Maria Muzikova, MUDr. Peter Kossey, Bratislava, ul. Ceskoslovenskej armady 17.

(NEOPLASMS, extransplantation,

Crocker sarcoma 180, in acellular filtrates)

(SARCOMA, transplantation,

Crocker sarcoma 180, transpl. in acellular filtrates)

KOSSEY, P.

HLAVAYOVA, E., Dr.; KOSSEY, P., MUDr (Bratislava, ul. CSA 17)

Marketoning of the Parket of the

Metastases of rat tumor BS-1 after intratesticular transplantation. Cesk.onkol. 2 no.2-3:133-137 1955.

1. Vyskumny ustav onkologicky v Bratislave.
(NROPLASMS, transplantation,
intratesticular implant of rat tumor BS-1, metastases)
(TESTES, neoplasms,
exper. implants of tumor BS-1 in rats, metastases)

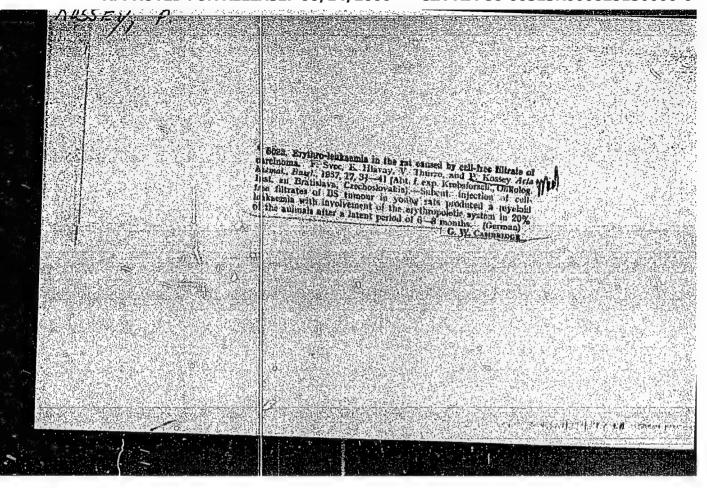
Kacten

THURZO, Viliam; SVEC, Frantisck; HLAVAYOVA, Elena; KOSSEY, Peter

Experimental erythroleukaemia induced by cell-free filtrates from rat tugours. Cesk. onkol. 3 no.4:267-269 1956.

1. Oncological Research Institute, Bratislava.

(ANEMIA, ERYTHROLEUKOBLASTIC, experimental,
osteosclerotic, prod. by inject. of cell-free
rat tumor filtrates)
(NEOPLASMS, experimental,
cell-free rat tumor filtrates causing osteosclerotic
anemia)



KOSSEY, P

SVEJDA, Jeroslav; KOSSEY, Peter; HLAVAYOVA, Elena; SVEC, Frantisek

Histological picture of the transplantable rat leukaemia induced by X-irradiation and methylcholantrene, Neoplasma, Bratisl. 5 no.2: 123-131 1958.

1. Oncological Research Institute, Bratislava Patho-Anatomical Institute, Faculty of Medicine, Masaryk University, Brno. Authors' address: Dr. J. Svejda, Brno, Pekarska 53; Dr. P. Kossey, Dr. Hlavayova, Dr. F. Svec, Bratislava, ul. Cs. armady 17.

(LEUKEMIA, EXPERIMENTAL,
methylcholanthrene & x-ray induced in rats)
(METHYLCHOLANTHRENE, effects,
exper. leukemia in rats)
(ROENTGEN RAYS, effects,
same)

ORAVEC, C.; SMIDOVA-KOVAROVA, V.; KOSSEY, P.

Heterotransplantation of tumours--Part II. Heterotransplantation of Walker 256 carcinoma in hamster treated with cortisone, antigen, Antiserum and zymosan. Neoplasma, Bratisl. 6 no.3:262-267 1959.

1. Oncological Research Institute, Bratislava, CSR.

(NEOPLASMS transpl.) (CORTISONE pharmacol.)

(ANTIGENS pharmacol.) (IMMUNE SERUMS pharmacol.)

CERVENANSKY, J.; KOSSEY, P.

Hwing's sarcoma. Neoplasma, Bratisl. 6 no.3:327-335 1959.

1. Orthopedic Clinic, Faculty of Medicine, Komensky University, Bratislava Oncological Research Institute, Bratislava, CSR.

(SARSOMA EWIG'S)

ORAVEC, C.; SMIDOVA-KOVAROVA, V.; KOSSEY, P.

Heterotransplantation of tumours Part III. Viability of cells of the Ehrlich Aseites mouse tumour hetero-transplanted to adult rats breated and non-treated with cortisone, in the anterior eye chamber, subcutaneously and intraperitoneally. Neoplasma, Bratisl. 6 no.4:390-394 1959.

CHERVENYANSKIY, Ya. [Corvenansky, J.]; KOSSEY, P.

Ewing's sarcoma. Ortop.travm. i protez. 20 no.6:27-31 Je 159.

(MIRA 13:3)

1. Iz ortopedicheskoy kliniki (zaveduyushchiy - chlen-korrespondent Slovatskoy akademii nauk Ya. Chervenyanskiy) meditsinskogo fakul teta Universiteta im. Komenskogo i Onkologicheskogo issledovatel skogo instituta (zaveduyushchiy - chlen-korrespondent Slovatskoy akademii nauk V. Turzo), Bratislava.

(SARCOMA, EWING'S, surg. (Rus))

ORAVEC, C.; SMIDOVA-KOVAROVA, V.; KOSSEY, P.

Hetero-transplantation of Walker 256 carcinoma in hamsters previously treated with cortisone, antiserum and zymosan. Neoplasma, Bratisl. 7.no.1 suppl:50-51 '60.

(NEOPLASMS exper)
(CORTISCIE pharmacol)
(IMMUNE SERUMS pharmacol)
(POLYSACCHARIDES pharmacol)

WINKLER, A.; UJHAZY, V.; CHRNY, V.; SANDOR, L.; KOSSEY, P.

Effect of the spleen on the inhibition and course of certain experimental leukemias in rats treated with chloralkylamine. Neoplasma, Bratisl. 7 no.1 suppl:144-146 '60.

1. Vyskumny ustav onkologicky, Bratislava.
(LEUKEMLi exper)
(ANTINEOPLASTIC AGENTS pharmacol)
(SPLEEN physiol)

SMIDOVA-KOVAROVA, V.; ORAVIEC, C.; BAZANY, M.; KOSSEY, P.

A STATE OF PROPERTY STATES OF PROPERTY OF

Heterotransplantation of tumours. Part IV. Heterotransplantation of Walker 256 rat carcinoma in hamsters treated with cortisone in combination with normal rat organs antigen and with tumour antigen. Neoplasma, Bratisl. 7 no. 2:167-171 '60.

1. Oncological Research Institute, Bratislava, C.S.R. (NEOPLASMS exper) (CORTISONE pharmacol)

MESTITZOVA, M.; KOSSEY, P.

Experimental contribution to the problem of the pathogenesis of pulmonary cancer. Necplasma, Bratisl. 8 no.1:27-39 161.

1. Institut fur Arbeitsmedisin and Berufskrankheiten, Onkologisches Forschunsinstitut, Bratislava, Tschechoslowakei. (LUNG NEOPLASMS exper)

HLAVAYOVA, E.; KOSSEY, P.; SMIDA, J.; SVEC, F.

Further experiments with a leukaemogenic inducer present in BS tumour. Neoplasma 9 no.5:457-463 162.

1. Oncological Research Institute, Bratislava, CSSR.
(NEOPLASMS, EXPERIMENTAL) (LEUKEMIA, EXPERIMENTAL)

KOSSEY, P.; KLAUBER, E.

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1. Oncological Research Institute, Bratislava, CSSR. (GYNECOLOGIC NEOPLASMS) (HISTOLOGICAL TECHNICS)

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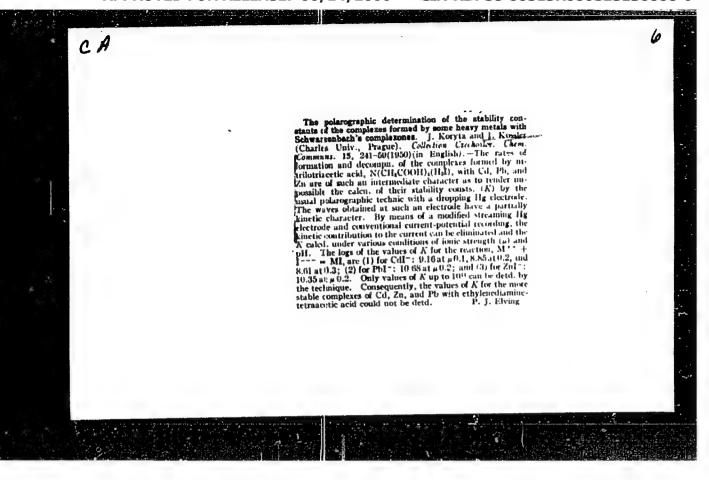
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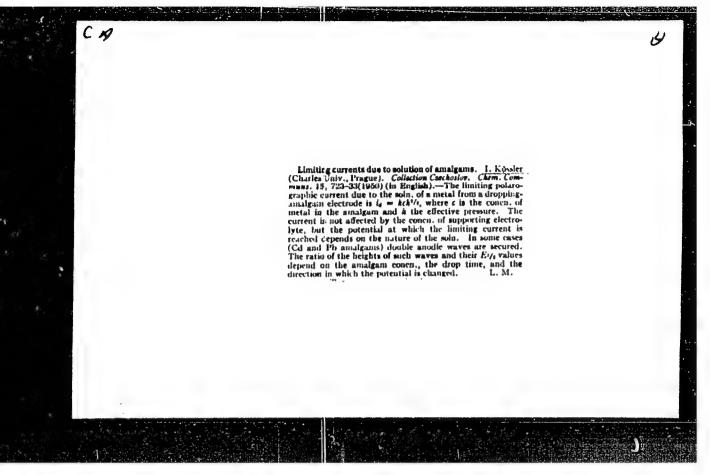
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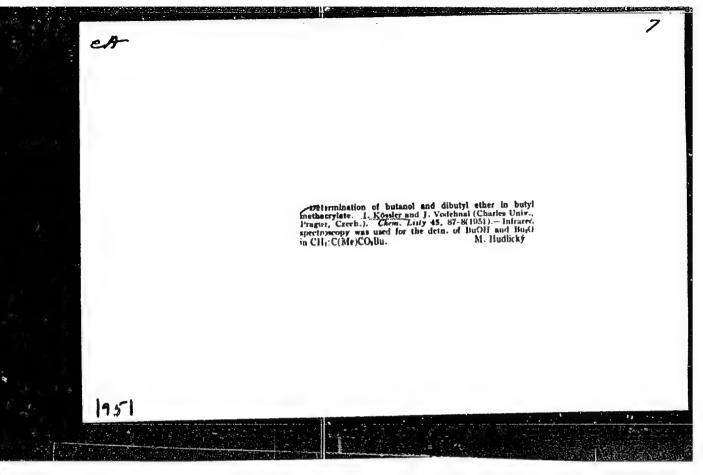
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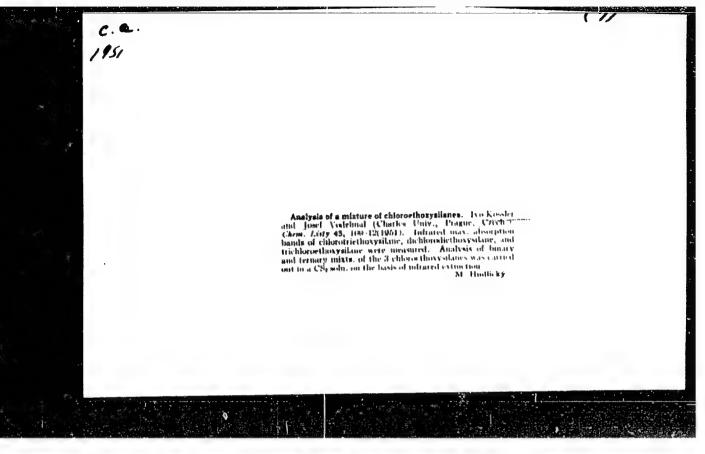
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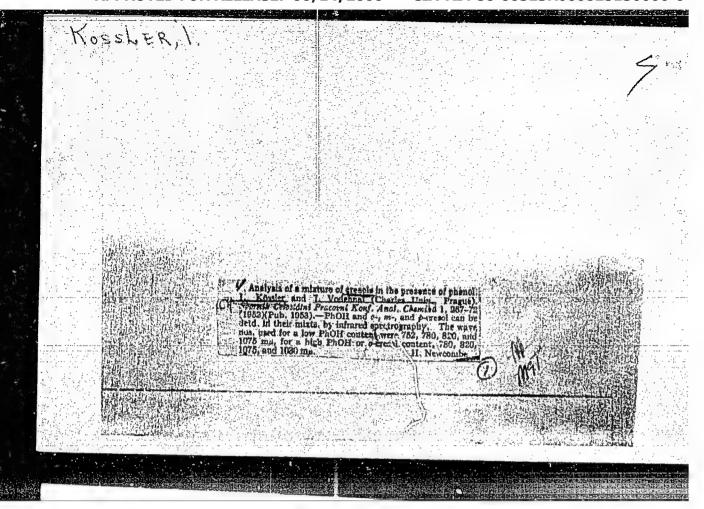
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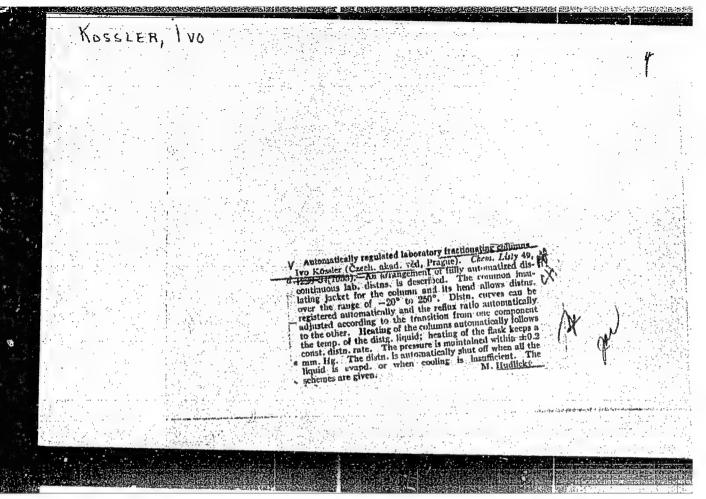
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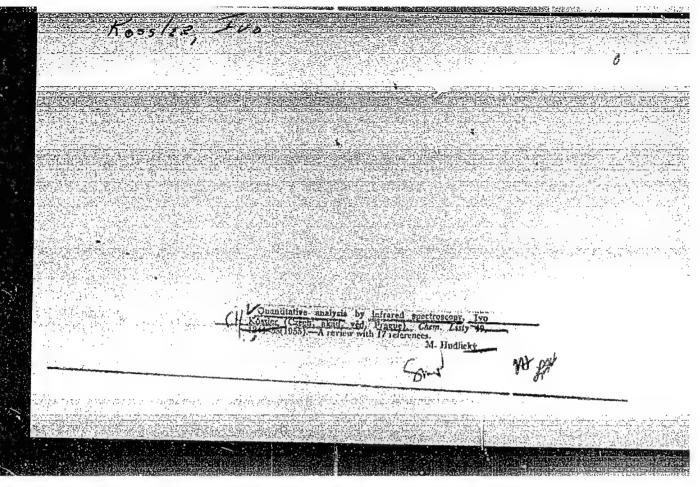
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KOSSLER, I.

Czechoslovakia

Neuere Entwicklung auf dem Gebiet der Theorie und Praxis der Hochpolymeren

(Hauptjahrestagung 1956 der Chemischen Gesellschaft in der Deutschen Demokratischen Republik

Aus dem Tagungsprogramm - Nachmittags: Gruppe C:

Dr. B. Matyska, I. KOSSLER und V. BRAIER (Vorgetr. von B. MATYSKA), Prag, "Polymerization von Methakrylsaurebutylester in Substanz."

SOURCE: Plaste u Kautschuk, October 1956, Unclassified.

	Arch, elektroi In Polish. The compo- and an analysi affect of varia affect of varia armined. Con diode detector is applied. The Age component againg of valva reduced to the is operation of the	PROBLEMB IN THE THEORY OF A RATIO  Likesler.  Ch. (Warsaw), Yel. 3, No. 4, 591-520 (1956).  Assition of variations in signal amplitude is explained leading to quantitative result in described. The on in parameters on the behaviour of the system is upcausation is schleved by anoqual local impedances of To simplify the analysis a quant-stationary method variation in efficiency of detection and direct willing are considered since other parameters such as and restainers and variation in input signal may be two. It is shown that the values limit for stable system coincides with the practical limit for a sustained state. The experimental data are given.  M.W.Makowati	2  -4EId
E CENTRAL CONTRACTOR		ar h	

# KOSSLER, I.

"Apparatus for latoratory distillation."

p. 202 (Chemicky Frumysl) Vol. 7, no. 6, June 1957 Prague, Czechoslovakia

SO: Month, Index of East European Accessions (EEAI) LC. Vol. 7, no. 4, April 1958

CZECHOSLOVAKIA / High Polymer Chemistry.

Abs Jour: Ref Zhur-Khimiya, No 23, 1958, 80112.

Author : Matyska, B., Kossler, I., Srajer, V.

Inst : Not given.

Title : The Kinetics of Polymerization of n-Butyl Metha-

crylate.

Orig Pub: Chem. listy, 1957, 51, No 12, 2287-2294.

Abstract: The kinetics of block polymerization of n-butyl methacrylate (I) was investigated. The polymerization was initiated by a thermal decomposition of benzoyl peroxide. The rate constants of individual processes were determined. The values found for the block polymerization of I differ insignificantly from the corresponding values for methyl methacrylate. The presence of a

Card 1/2

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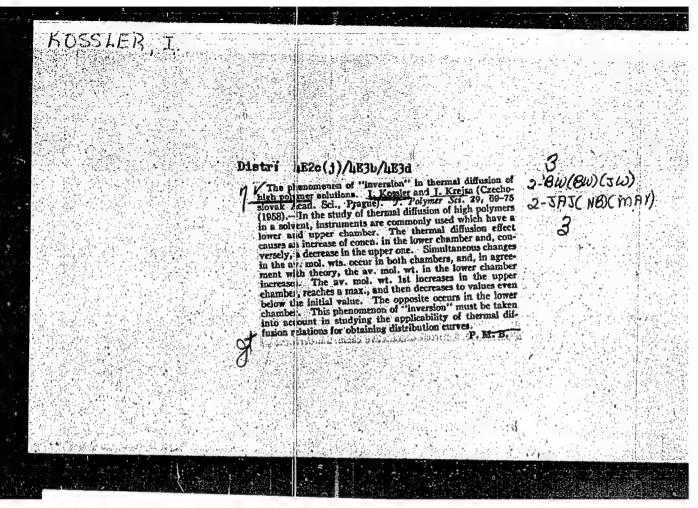
Abs Jour: Ref Zhur-Khimiya, No 23, 1958, 80112.

Abstract: butyl ester of alpha hydroxy butyric acid weakly effects the polymerization of I; the presence
of n-butyl alcohol, isobutyl alcohol and dibutyl
ether slows down the reaction rate (up to 10%
when 5% of the additive was introduced). The
presence of isobutyl alcohol has a great effect
upon the rate of polymerization. Water does not
influence the polymerization rate until 15%
of conversion. The rate of reaction is constant
until the polymerization reaches 40%, thereafter
rising rapidly. The process of polymerization
was found to lack an explosive nature.

Card 2/2

END 123

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CZECH/5517

#### PHASE I BOOK EXPLOITATION

Kössler, Ivo, Doctor of Natural Sciences, Candidate of Chemical Sciences

Infračervená spektroskopie v chemické analyze (Infrared Spectroscopy in Chemical Analysis) Prague, SNTL, 1960. 196 p. Errata slip inserted. (Series: Moderní metody v chemické laboratoři, sv. 1) 1,200 copies printed.

Reviewer: Josef Pliva, Doctor of Engineering, Doctor of Chemical Sciences; Chief Ed.: Adolf Balada, Doctor; Resp. Ed.: Marie Školová, Graduate Chemist.

PURPOSE: This handbook is intended for workers in the chemical industry and in chemical research concerned with organic synthesis, petroleum, synthetic materials, paints and lacquers; for workers in the food and pharmaceutical industries; and for related departments of schools of higher education.

COVERAGE: The book deals with the practical applications of infrared spectroscopy in chemical analysis. Fundamentals of infrared spectroscopy, qualitative analysis (identification of substances, analysis of mixtures, and determination of the purity of substances), quantitative analysis (the light balance, diffusion of light in the instrument, measurement and calculation methods), and infrared

Card-1/7

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000825130006-6" spectroscopy combined with separation methods (rectification, chromatography, and fractional crystallization) are discussed. Experimental technique, including a description of instruments and how to use them, the preparation of specimens and examples of analysis, and the documentation of spectra, is examined. The author states that the book fills the need for a systematic summary and treatment of methods of analysis and is not intended as a textbook on infrared spectroscopy or an assembly of data from published works on analysis. The symbols most common in the field are used, though some of them contradict, the recommendations of the International Commission on Spectroscopy. J. Dvorak, Doctor of Natural Sciences, is mentioned for his help. There are 193 references: 159 English, 9 Czech, 10 German, 4 Soviet, 4 French, 2 Swedish, 2 Swiss, 2 Belgian, and 1 Dutch.

TABLE OF CONTENTS:

Preface

Ch. I. Origin of Spectra, Infrared Radiation, and the Infrared Spectra

1. Origin of spectra

Card-27

Z/009/60/000/011/001/001 E112/E153

AUTHORS:

Dolejšek, Z. Grubner, O. Hanuš, V. Kössler, I.

Matyska, B, and Vodehnal, J.

TITLE:

Analytical Control of Isoprene Rectification

PERIODICAL: Chemický průmysl, 1960, No. 11, pp. 571 - 575

TEXT: For the stereoscopic polymerization of isoprene, monomers of sufficiently high quality are essential. Purification of isoprene on a large scale is carried out by distillation processes. Technical isoprene contains various saturated and unsaturated hydrocarbons with 4, 5 or 6 carbons. Separation is accomplished by azeotropic distillation, adding acetaldehyde, propylene oxide, methyl formate, methanol, isopentane, isopropylamine, acetone, water or aqueous acetone as azeotropic agent. As the literature does not contain sufficient data about the boiling points of the different mixtures the authors have undertaken a study of the normal rectification of isoprene on efficient columns and have followed the concentrations of the different components in the various cuts. The effect of water and methyl alcohol as azeotropic agents was also considered. Card 1/6

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#### Z/009/60/000/011/001/001 E112/E153

Analytical Control of Isoprene Rectification

Two types of isoprene from different sources were investigated: 1) Soviet material, with 96% isoprene content, and 2) Czechoslovak material, prepared from isobutylene and formaldehyde, with 13% isoprene. The different distillation fractions were analysed by mass spectrography, infrared spectroscopy and gas chromatography, using thermoconductivity cells for detection. chromatogram of sample B (Czechoslovak), e.g. first sample of condensate from still-head is shown (Fig.1), revealing 8 peaks and identified as follows: 1) isobutylene, not isolated in pure state but found in one fraction in an amount of 15% together with 85% 3-methylbutene-1; 2) and 3), peaks appertaining to butene-1 and butene-2 (confirmation of structure through mass spectrography); 4) 3-methylbutene-1 (this compound was isolated from one fraction in 99.5 purity and identified spectroscopically by comparison with data in the literature; 5) 2-methylbutene-1 (this compound was identified by comparison with literature data. It was obtained by fractional distillation in approximately 80% purity. It was also obtained by preparative Card 2/6

Z/009/60/000/011/001/001 E112/E153

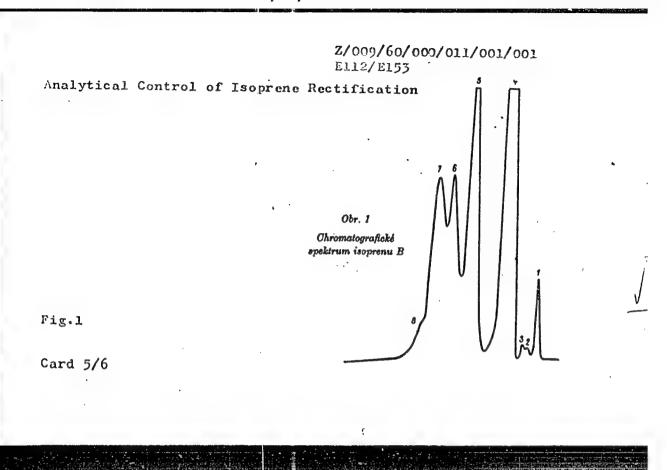
Analytical Control of Isoprene Rectification

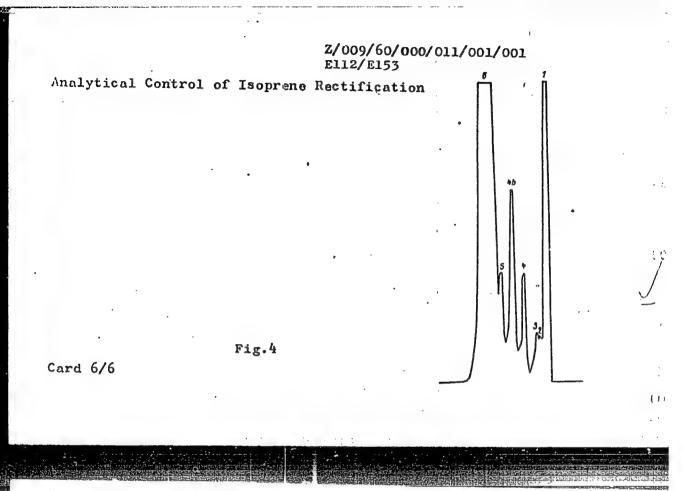
gas chromatography, and both samples proved identical); 6) isoprene: standard prepared by fractional distillation in 99.98% purity and by preparative chromatographic method (ethyl cyclopentanecarboxylate as stationary phase); 7) 2-methylbutene-2 prepared by fractional distillation in 98% purity (identified by method used for 3-methylbutene-1; compound prepared for identification purpose also by preparative gas chromatography). Chromatogram of sample A (Soviet isoprene) revealed similar characteristics. A special peak (4b) was noticed, the identity of which was not yet determined. Results of practical distillation tests were as follows. Sample A was distilled over a low-efficiency column with reflux ratio 13:1. Pentene contents were reduced from 4 to 1.2%, and isoprene of 98.8% purity and in yields of 80% was collected. Using a more efficient column with reflux ratio 40:1 equilibrium was established after 2 hours and isoprene of 99.98% purity was obtained in poor yields. Attempts to improve yields by the addition of azeotropic agents (methanol, water) failed. Distillation of sample B was undertaken

#### Z/009/60/000/011/001/001 E112/E153

Analytical Control of Isoprene Rectification

over a column with reflux ratio 4:1. The concentration of isoprene in the middle fraction was doubled and the distillate contained only four components: 3-methylbutene-1; 2-methylbutene-1; isoprene; 2-methylbutene-2. A further fractionation over a column with reflux ratio 25:1 yielded further fraction, from which only those containing 2-methylbutene-1, isoprene and 2-methylbutene-2 were collected. Distillation of the three combined fractions over a column with reflux ratio 40:1 gave a two-component mixture in which the pentene concentration amounted to only 13%. By azeotropic distillation with acetone, conversion into high-grade isoprene could be achieved. claimed that yields were satisfactory. Acknowledgements are made to Doctor J. Pech, director, VÚSK Gottwaldov for useful advice and for supplying some of the raw materials. There are 6 figures, 4 tables and 16 references (including several patents to one reference): 11 English, 4 Czech and 1 Soviet. Ústav fyzikální chemie ČSAV, Praha (Institute for ASSOCIATION: Card 4/6 Physical Chemistry, ČSAV Prague) SUBMITTED: June 6, 1960





APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000825130006-6"

Distr: 4E2c(1)/4E3d

V Thermodiffusion distribution curve of polychloroprene.

Jvo Kossler and Milin Stolks (Crech. Acad. Scl., Prague).

J. Playmer Sci. 44, 118-22f(100).—Polychloroprene polnawere fractionated in a variety of thermodiffusion cells to
qual. evaluate some factors affecting the degree of sepn.
Fractionation of a Skg. sample of polychloroprene in 100
nm. wideoff(np. = 1.14, in a Z-reservoir app.) with an 0.5
nm. wideoff(np. = 1.14, in a Z-reservoir app.) with an 0.5
nm. wideoff(np. = 1.14, in a Z-reservoir app.)

—1 of 12 at equal, where a caparition cock, ry = (c/c, all
upper reservoirs, resp. The inversion phenomenon observod (bibd. 29, 08(1189)) for poly(butyl methacrylate) was
not found. Tests in a 5-reservoir app, showed minor inversion in scan cell during the first few hrs. Sepn. efficiency
was improved by decreasing the vol. of the lower part of
the diffusion chamber, and combining fractionation with
extra. Into pure solvent. The sharpest fractionation with
extra. Into pure solvent. The sharpest fractionation, as
more intrinsic viscories of the sharpest fractionation, as
more intrinsic viscories and combining fractionation with
extra into pure solvent. The sharpest fractionation, as
more intrinsic viscories and combining fractionation with
extra into pure solvent. The sharpest fractionation, as
more intrinsic viscories and the upper part with polying 23 syrings sampling points, and the upper part with polymer soln, and employing a programmed temp, gradient, an
integral-distribution curve was obtained having two inflection points similar to distribution curves obtained by fractional pprin.

J. V. B. Hawdy

Z/009/61/000/007/003/004 E112/E135

AUTHORS: Dolejšek, Z., Grubner, O., Hála, E., Hanuš, V., and

Kossler, I.

TITLE: Contribution to the purification and analysis of

isoprene. II.

PERIODICAL: Chemický průmys1, 1961, No.7, pp. 361-363

TEXT: The production of polyisoprene requires the use of a monomer of highest purity. Distillation methods are suggested for the isolation of isoprene; it is stated that recovery processes will be successful if based on a thorough knowledge of vaporliquid equilibrium data of the main components of technical isoprene. The present paper describes the determination of equilibrium data for mixtures of 2-methylbutene-1 (component 1), isoprene (component 2) and 2-methylbutene-2 (component 3). The above components were first purified and their mixtures then studied in a modified vapor-liquid equilibrium still, developed originally by D.T.C. Gillespie (Ref.2: Ind.Eng.Chem. A.E., 18, 575 (1946). A diagram of the apparatus is shown in Fig.1 and the experimental procedure is described. (A - inlet tube, C - Cottrell pump, Card 1/6

Contribution to the purification and analysis of isoprene. II.

E - equilibrium chamber, CH - condenser, K, P - sample chambers, R - disengagement chamber, V - boiler). In operation, sample chambers K, P and boiler V are filled with a measured quantity of the hydrocarbon mixture and the boiling rate adjusted so as to maintain the steady pumping of liquid and vapour through the Cottrell tube. After allowing sufficient time of operation to ensure steady conditions within the apparatus, samples of the boiling liquid and condensed vapour are withdrawn from chambers K and P by means of a cooled syringe and collected in glass ampoules for analysis. Analytical data are tabulated which enable the calculation of the correlation between relative volatility and composition of the liquid phase. The equation for a binary system is as follows:

$$a_{12} = \frac{y_1}{x_1} \frac{x_2}{y_2} = \frac{1 + 0.102 x_2}{1 - 0.093 x_1}$$
 (1)

$$a_{13} = \frac{y_1}{x_1} \frac{x_3}{y_3} = \frac{1 + 0.410 x_3}{1 - 0.291 x_1}$$
 (2)

Contribution to the purification and analysis of isoprene. II.

$$\mathbf{a}_{23} = \frac{\mathbf{y}_2}{\mathbf{x}_2} \frac{\mathbf{x}_3}{\mathbf{y}_3} = \frac{1 + 0.180 \ \mathbf{x}_3}{1 - 0.083 \ \mathbf{x}_2} \tag{3}$$

where:  $x_1$ ,  $x_2$ ,  $x_3$  are molar fractions of components 1, 2 and 3 in the liquid phase;  $y_1$ ,  $y_2$ ,  $y_3$  are molar fractions of components 1, 2 and 3 in the vapour phase; and  $a_{12}$ ,  $a_{13}$ ,  $a_{23}$  the relative volatilities of the subscript components. Ternary systems follow the following equations:

$$\mathbf{a}_{13} = \frac{\mathbf{y}_1}{\mathbf{x}_1} \frac{\mathbf{x}_3}{\mathbf{y}_3} = \frac{1 + 0.410 \ \mathbf{x}_3 + 0.102 \ \mathbf{x}_2}{1 - 0.291 \ \mathbf{x}_1 - 0.083 \ \mathbf{x}_2}$$
(4)

$$\mathbf{a}_{23} = \frac{\mathbf{y}_2}{\mathbf{x}_2} \frac{\mathbf{x}_3}{\mathbf{y}_3} = \frac{1 + 0.180 \ \mathbf{x}_3 - 0.093 \ \mathbf{x}_1}{1 - 0.083 \ \mathbf{x}_2 - 0.291 \ \mathbf{x}_1}$$
 (5)

The composition of the gaseous phase in equilibrium can be computed from the composition of the liquid phase by equations:

Card 3/ 6

Contribution to the purification and analysis of isoprene. II.

$$y_1 = \frac{a_{13} \frac{x_1}{x_3}}{1 + a_{13} \frac{x_1}{x_3} + a_{23} \frac{x_2}{x_3}}$$
(6)

$$y_2 = \frac{a_{13} (x_2 / x_3)}{1 + a_{13} \frac{x_1}{x_3} + a_{23} \frac{x_2}{x_3}}$$
 (7)

$$y_3 = 1 - y_1 - y_2$$
 (8)

The authors conclude from Eqs. (1) to (5) that binary or ternary azeotropes are absent from the system isoprene; 2-methylbutene-1 and 2-methylbutene-2, although this is in disagreement with the finding of M. Lecat (Ref. 7: Ann. Soc. Sci. Bruxelles, 63, 58 (1949). The validity of the findings of the Czechoslovak authors was confirmed by practical distillation results, which will be utilized Card 4/6

Contribution to the purification and analysis of isoprene. for the study of the economics of industrial isoprene recovery for the production of synthetic rubber. There are 1 figure (diagram of Gillespie apparatus), 2 tables (results of analyses) and 9 references: 6 Czech, 2 English and 1 French. The English language references read as follows: , Ref. 2: D.T.C. Gillespie, Ind. Eng. Chem. A.E., 18, 575 (1946). Ref. 8: L.H. Horsley, Azeotropic data. Washington, 1954, No. 7837.

ASSOCIATION: Ústav fyzikální chemie Československé akademie véd,

(Institute of Physical Chemistry, Czechoslovak AS,

Prague)

November 14, 1960 SUBMITTED:

Card 5/6